

CODNA PREPARATION FROM
NORMAL BIRDS AND FROM THE SAMPLER

CHINA, PART PART II
FROM BRITAIN'S WORK

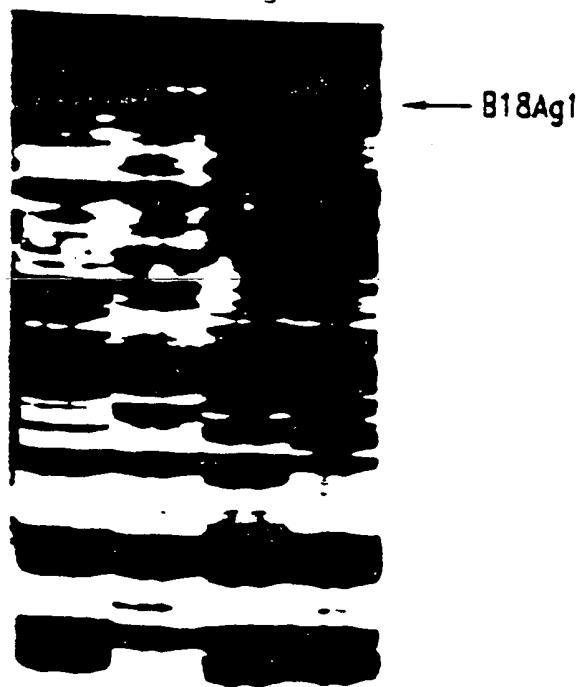


Fig. 1

BREAST TUMOR mRNA

NORMAL BREAST TISSUE mRNA

Fig. 2

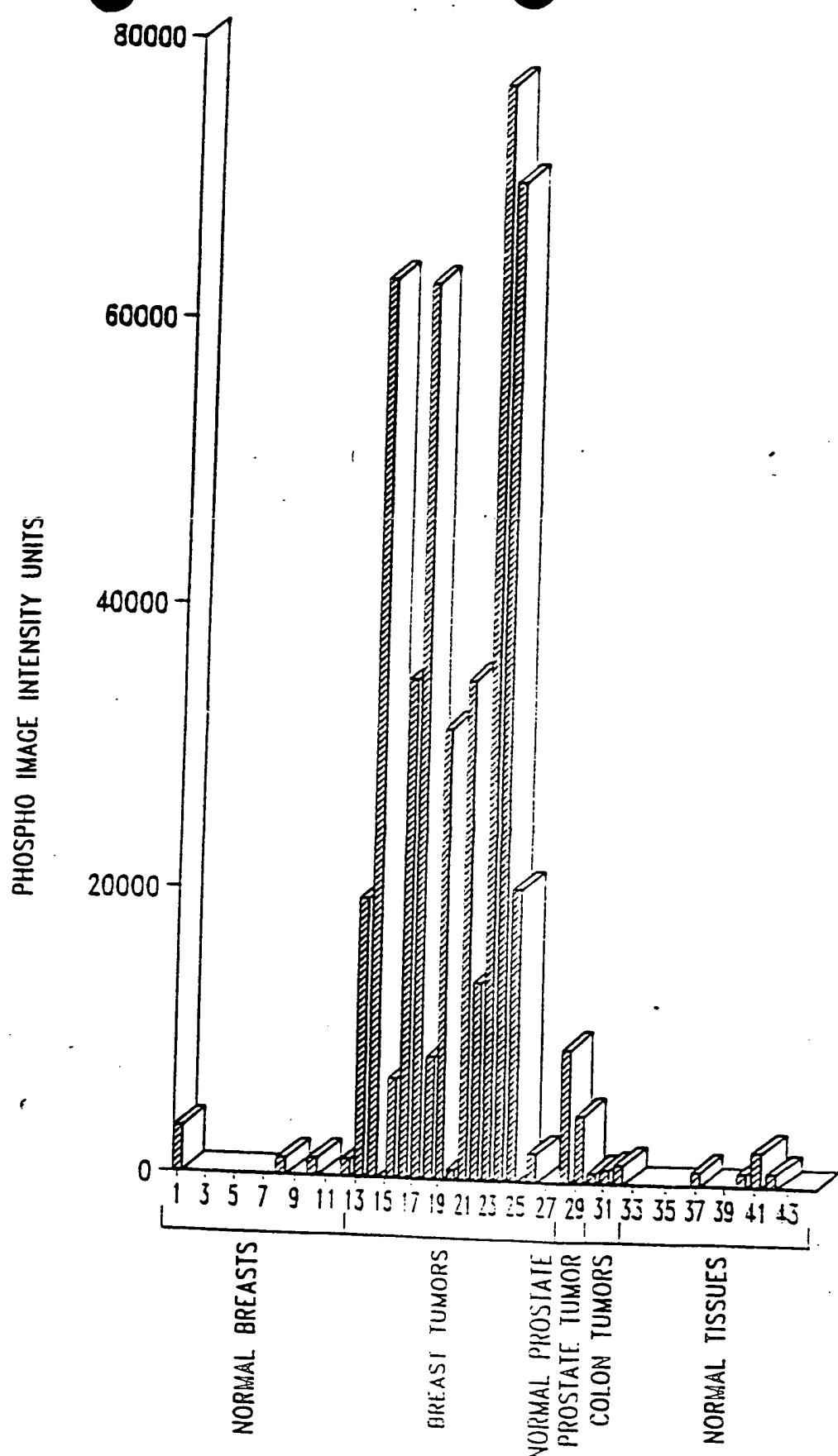


Fig. 3

GENOMIC CLONE MAP

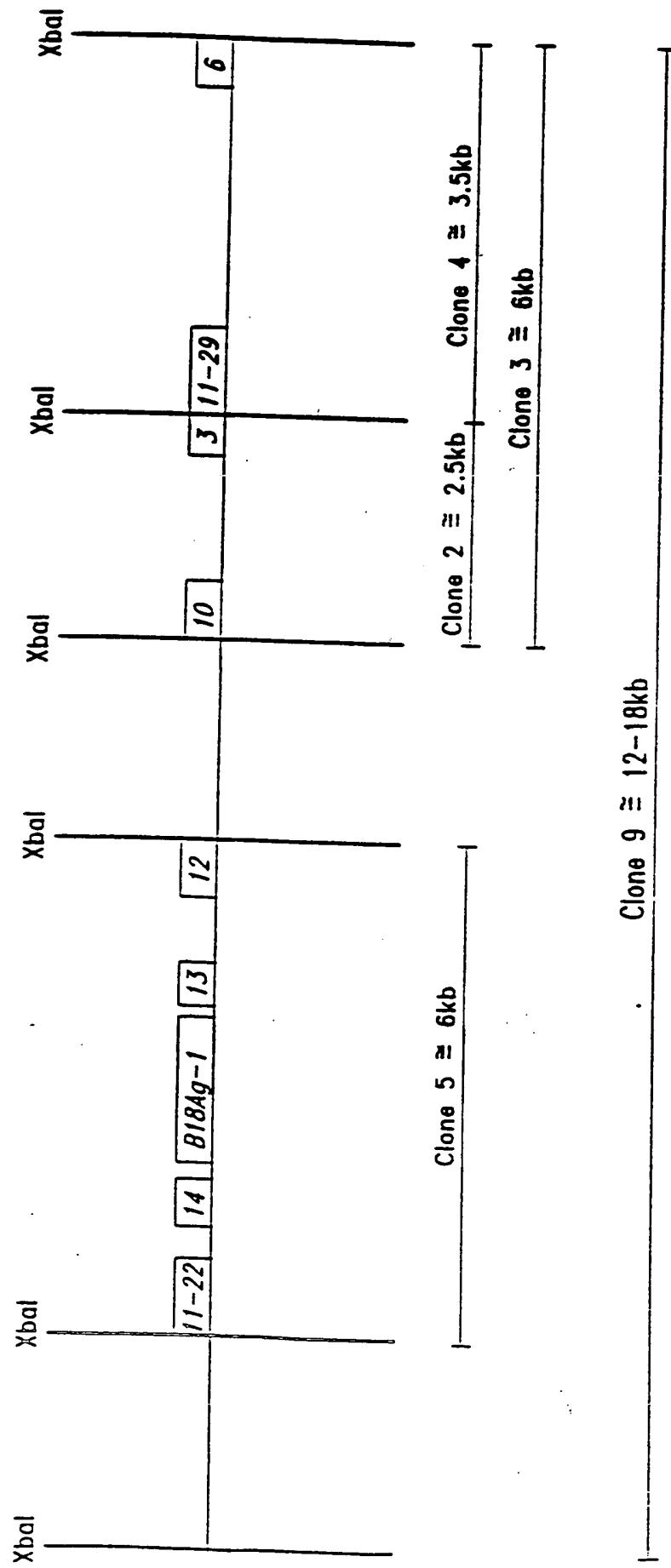
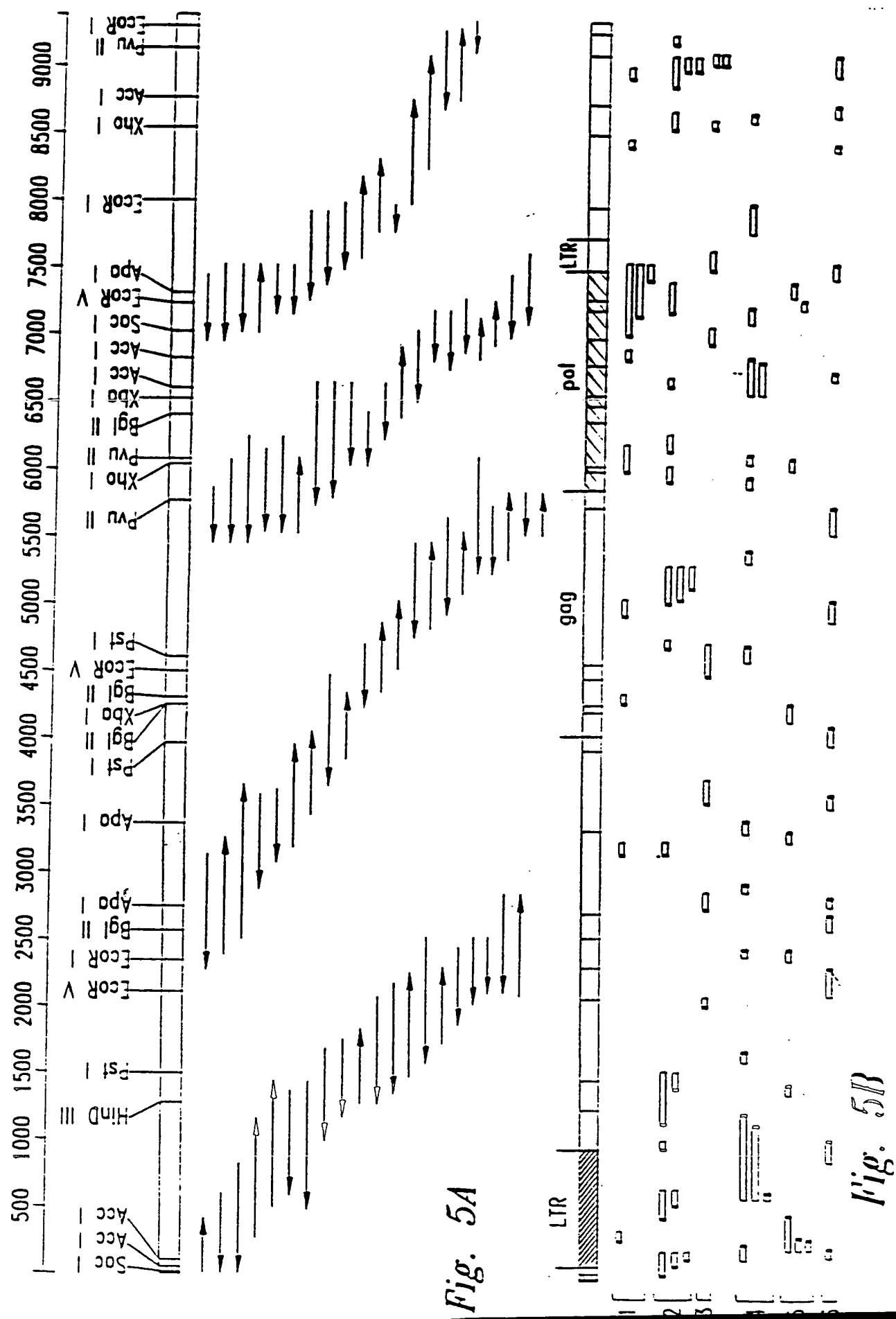


Fig. 4



NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B18Ag1

TTA GAG ACC CAA TTG GGA CCT AAT TGG GAC CCA AAT TTC TCA AGT GGA	48
Leu Glu Thr Gln Leu Gly Pro Asn Trp Asp Pro Asn Phe Ser Ser Gly	
1 5 10 15	
GGG AGA ACT TTT GAC GAT TTC CAC CGG TAT CTC CTC GTG GGT ATT CAG	96
Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val Gly Ile Gln	
20 25 30	
GGA GCT GCC CAG AAA CCT ATA AAC TTG TCT AAG GCG ATT GAA GTC GTC	144
Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Ala Ile Glu Val Val	
35 40 45	
CAG GGG CAT GAT GAG TCA CCA GGA GTG TTT TTA GAG CAC CTC CAG GAG	192
Gln Gly His Asp Glu Ser Pro Gly Val Phe Leu Glu His Leu Gln Glu	
50 55 60	
GCT TAT CGG ATT TAC ACC CCT TTT GAC CTG GCA GCC CCC GAA AAT AGC	240
Ala Tyr Arg Ile Tyr Thr Pro Phe Asp Leu Ala Ala Pro Glu Asn Ser	
65 70 75 80	
CAT GCT CTT AAT TTG GCA TTT GTG GCT CAG GCA GCC CCA GAT ACT AAA	288
His Ala Leu Asn Leu Ala Phe Val Ala Gln Ala Ala Pro Asp Ser Lys	
85 90 95	
AGG AAA CTC CAA AAA CTA GAG GGA TTT TGC TGG AAT GAA TAC CAG TCA	336
Arg Lys Leu Gln Lys Leu Glu Gly Phe Cys Trp Asn Glu Tyr Gln Ser	
100 105 110	
GCT TTT AGA GAT AGC CTA AAA GGT TTT	363
Ala Phe Arg Asp Ser Leu Lys Gly Phe	
115 120	

Fig. 6

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B17Ag1

GC TGGGCACAGT GGCTCATACC TGTAACTCTG ACCGTTTCAG AGGCTCAGGT	60
CG CTTGAGCCCCA AGATTTCAAG ACTAGTCTGG GTAACATAGT GAGACCCAT	120
AA AAATAAAAAAA ATGAGCCTGG TGTAGTGGCA CACACCAGCT GAGGAGGGAG	180
CT AGGAGA	196

Fig. 7

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC cDNA B17Ag2

GC TTGGGGGCTC TGACTAGAAA TTCAAGGAAC CTGGGATTCA AGTCCAAGTG	60
AC TTACACTGTG GNCTCCAATA AACTGCTTCT TTCCCTATTCC CTCTCTATTAA	120
AA GGAAAACGAT GTCTGTGTAT AGCCAAGTCA GNTATCCTAA AAGGAGATAC	180
AT TAAATATCAG AATGTAAAAC CTGGGAACCA GGTTCCCAGC CTGGGATTAA	240
CA AGAAGACTGA ACAGTACTAC TGTGAAAAGC CCCAAGNGGC AATATGTTCA	300
TT GAAGGATGGC TGGGAGAATG AATGCTCTGT CCCCCAGTCC CAAGCTCACT	360
CT CCTTTATAGC CTAGGAGA	388

Fig. 8

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NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B13Ag2a

GC CTATAATCAT	GTTCTCATT	ATTTCACAT	TTTATTAACC	AATTTCTGTT	60
AA AATATGAGGG	AAATATATGA	AACAGGGAGG	CAATGTCAG	ATAATTGATC	120
TG ATTTCTACAT	CAGATGCTCT	TTCCTTCCT	GTTTATTCC	TTTTTATTTC	180
GG TCGAATGTAA	TAGCTTGTT	TCAAGAGAGA	GTTTGCCAG	TTTCTGTAGC	240
CT GCTCATGTCT	CCAGGCATCT	ATTTGCACTT	TAGGAGGTGT	CGTGGGAGAC	300
CT ATTTTTCCA	TATTGGGCA	ACTACTA			337

Fig. 9

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B13Ag1b

GC CATACTAGTGC CTTTCCATT ATTAAACCCC CACCTGAACG GCATAAACTG 60
GC TGGTGTCCCC TACTGTAAAC AATAAGGAGA CTTTGCTCTT CATTAAACC 120
AT TTCATATTTT ACGCTCGAGG GTTTTACCG GTTCCTTTT ACACTCCTTA 180
TT TAAGTCGTTT GGAACAAAGAT ATTTTTCTT TCCTGGCAGC TTTAACATT 240
TT TGTGTCTGGG GGACTGCTGG TCACTGTTTC TCACACTTGC AAATCAAGGC 300
CC AAGAAAAAAA AATTTTTTG TTTTATTGA AACTGGACCG GATAAACGGT 360
CG GCTGCTGTAT ATAGTTTAA ATGGTTTATT GCACCTCCTT AAGTTGCACT 420
GG GGGGNTTTG NATAGAAAGT NTTTANTCAC ANAGTCACAG GGACTTTNT 480
NA CTGAGCTAAA AAGGGCTGNT TTTCGGGTGG GGGCAGATGA AGGCTCACAG 540
TC TCTTAGAGGG GGGAACTNCT A 571

Fig. 10

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B13Ag1a

TA ATAACCTAAA TATATTTGA TCACCCACTG GGGTGATAAG ACAATAGATA	60
TT TCCAAAAAGC ATAAAACCAA AGTATCATAAC CAAACCAAAT TCATACTGCT	120
CC GCACTGAAAC TTCACCTTCT AACTGTCTAC CTAACCAAAT TCTACCCCTTC	180
GG TGCCTGCTCA CTACTCTTTT TTTTTTTTTT TTTNTTTTGG AGATGGAGTC	240
CA GCCCAGGGGT GGAGTACAAT GGCACAAACCT CAGCTCACTG NAACCTCCGC	300
TT CATGAGATTG TCCTGNTTCA GCCTTCCCAG TAGCTGGGAC TACACGTGTG	360
TG CCTGGNTAAT CTTTTTNGT TTTNGGGTAG AGATGGGGGT TTTACATGTT	420
TG GTNTCGAACT CCTGACCTCA AGTGATCCAC CCACCTCAGG CTCCCCAAAGT	480
TA CAGACATGAG CCACTGNGCC CAGNCCTGGT GCATGCTCAC TTCTCTAGGC	540
	548

Fig. 11

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC cDNA B11Ag1

TG CACATGCAGA ATATTCTATC GGTACTTCAG CTATTACTCA TTTTGATGGC 60
AG CCTATCCTCA AGATGAGTAT TTAGAAAGAA TTGATTTAGC GATAGACCAA 120
GC ACTCTGACTA CACGAAATTG TTCAGATGTG ATGGATTTAT GACAGTTGAT 180
GA GATTATTAAG TGATTATTT AAAGGGAATC CATTAAATTCC AGAATATCTT 240
TC AAGATGATAT AGAAATAGAA CAGAAAGAGA CTACAAATGA AGATGTATCA 300
TA TTGAAGAGCC TATAGTAGAA AATGAATTAG CTGCATTTAT TAGCCTTACA 360
TT TTCCTGATGA ATCTTATATT CAGCCATCGA CATAGCATT A CCTGATGGGC 420
GA ATAATAGAAA CTGGGTGCGG GGCTATTGAT GAATTCACTCC NCAGTAAATT 480
AC AAAATATAAC TCGATTGCAT TTGGATGATG GAATACTAAA TCTGGCAAAA 540
GG AGCTACTAGT AACCTCTCTT TTTGAGATGC AAAATTTCTT TTTAGGGTTT 600
CT ACTTTACGGA TATTGGAGCA TAACGGGA 638

Fig. 12

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC cDNA B3CA3c

ACTGATGGAT GTCGCCGGAG GCGAGGGGCG TTATCTGATG CTCGGCTGCC TGTTCGTGAT 60
GTGCGCGGGCG ATTGGGCTGT TTATCTCAAA CACCGCCACG GCGGTGCTGA TGGCGCTAT 120
TGCCTTAGCG GCGGCGAAGT CAATGGGCGT CTCACCCCTAT CCTTTTGCCA TGGTGGTGGC 180
GATGGCGGCT TCGGCGGGCGT TTATGACCCC GGTCTCCTCG CGGGTTAACCA CCCTGGTGCT 240
TGGCCCTGGC AAGTACTCAT TTAGCGATTT TGTCAAAATA GCGGTG 296

Fig. 13

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NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B9CG1

AG CAGCCCCCTTC TTCTCAATT CATCTGTCAC TACCCCTGGTG TAGTATCTCA	60
CA TTTTATAGC CTCCCTCCCTG GTCTGTCTT TGATTTCCCT GCCTGTAATC	120
AC ATAATGCAA GTAAACATT CTAAAGTGTG GTTATGCTCA TGTCACTCCT	180
AA ATAGTTCCA TTACCGTCTT AATAAAATTG GGATTTGTTG TTTNCTATTN	240
CA CCTATGACCG AA	262

Fig. 14

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B9CG3

AG CAAAGCCAGT GGTTTGGCT CTCTACTGTG TAAACTCCTA AACCAAGGCC 60
TA AATGGTGGCA GGATTTTAT TATAAACATG TACCCATGCA AATTCCTAT 120
GA TATATTCTTC TACATTTAAA CAATAAAAAT AATCTATT TAAAAGCCTA 180
AG TTAGGTAAGA GTGTTAATG AGAGGGTATA AGGTATAAAAT CACCAAGTCAA 240
TG CCTATGACCG A 261

Fig. 15

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B2CA2

GG GCATGGACGC AGACGCCCTGA CGTTTGGCTG AAAATCTTC ATTGATTG	60
AT AGGAAAATTC CCAAAGAGGG AATGTCCCTGT TGCTCGCCAG TTTTNTGTT	120
GG ANAAGGCAAN GAGCTCTTCA GACTATTGGN ATTNTCGTTC GGTCTTCTGC	180
CG NCTTGCNANG ATCTTCAT	208

Fig. 16

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B3CA1

GG GCATGGACGC AGACGCCTGA CGTTTGGCTG AAAATCTTC ATTGATTGGT 60
AT AGGAAAATTC CCAAAGAGGG AATGTCCGT TGCTGCCAG TTTTNTGTT 120
GG ANAAGGCAAN GAGCTCTTCA GACTATTGGN ATTNTCGTTC GGTCTTCTGC 180
CG NCTTGCNANG ATCTTCAT 208

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Fig. 17

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC cDNA B3CA2

GG GCATGGACGC AGACGCCTGA CGTTGGCTG AAAATCTTC ATTGATTGCT 60
AT AGGAAAATTC CCAAAGAGGG AATGTCCGT TGCTGCCAG TTTTNTGTT 120
GG ANAAGGCAAN GAGCTCTCA GACTATTGGN ATTNTCGTTC GGTCTTCTGC 180
CG NCTTGCNANG ATCTTCAT 208

Fig. 18

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B3CA3

AG GGAGCAAGGA	GAAGGCATGG	AGAGGGCTCAN	GCTGGTCCTG	GCCTACGACT	60
CT GTCGCCGGGG	ATGGTGGAGA	ACTGAAGCGG	GACCTCCTCG	AGGTCCCTCCG	120
TC NCCGTCCAGG	AGGAGGGTCT	TTCCGTGGTC	TNGGAGGAGC	GGGGGGAGAA	180
TC ATGGTCNACA	TCCC				204

REVERSE TRANSCRIPTASE

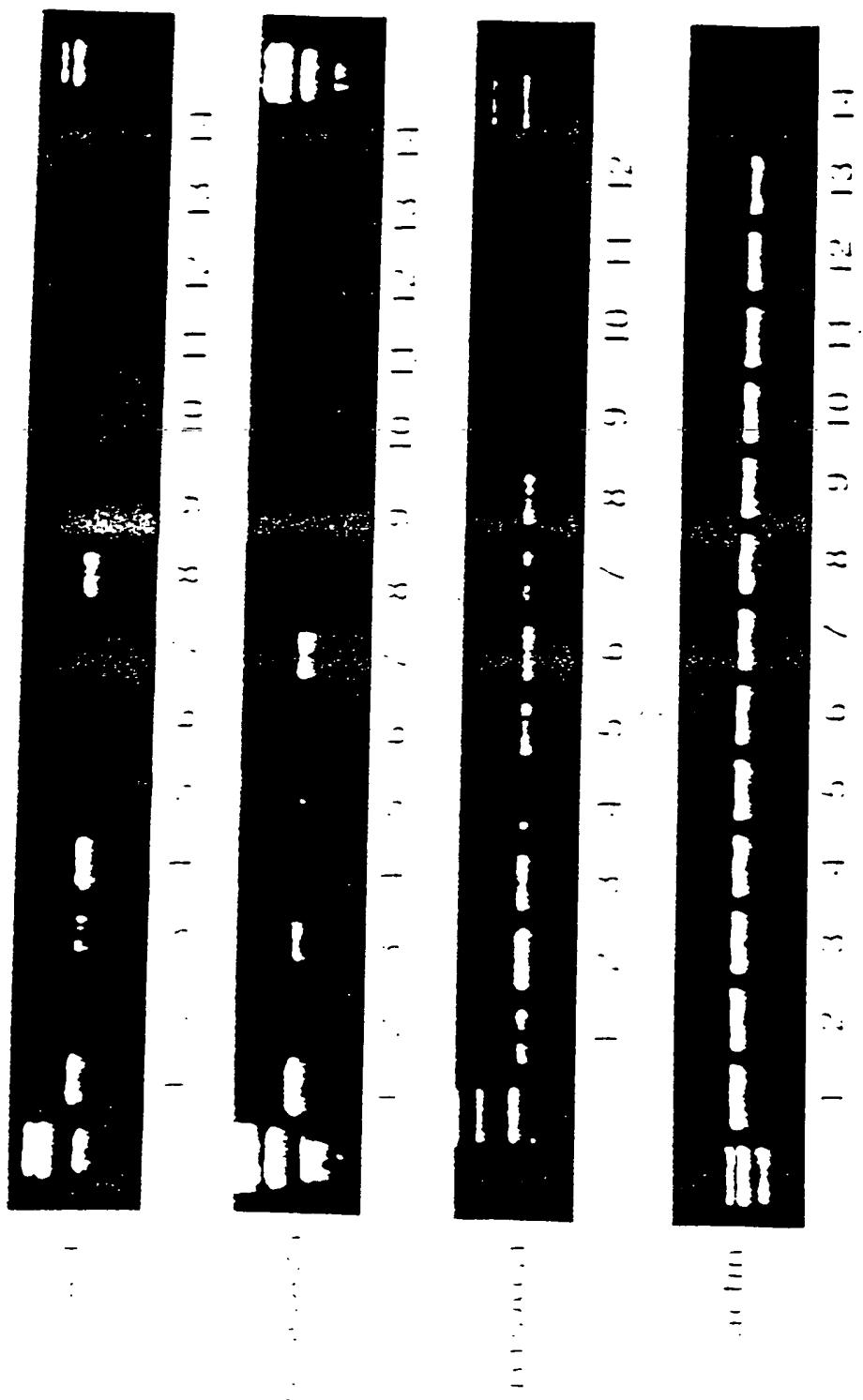
Fig. 19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC cDNA B4CA1

TC AGGAGCGGGT AGAGTGGCAC CATTGAGGGG ATATTCAAAA ATATTATTT	60
TG ATAGTTGCTG AGTTTTCTT TGACCCATGA GTTATATTGG AGTTTATTTT	120
CC AATCGCATEGG ACATGTTAGA CTTATTTCT GTTAATGATT NCTATTTTA	180
GA TTTGAGAAAAT TGGTTNTTAT TATATCAATT TTTGGTATTT GTTGAGTTG	240
GC TTAGTATGTG ACCA	254

Fig. 20

Fig. 211



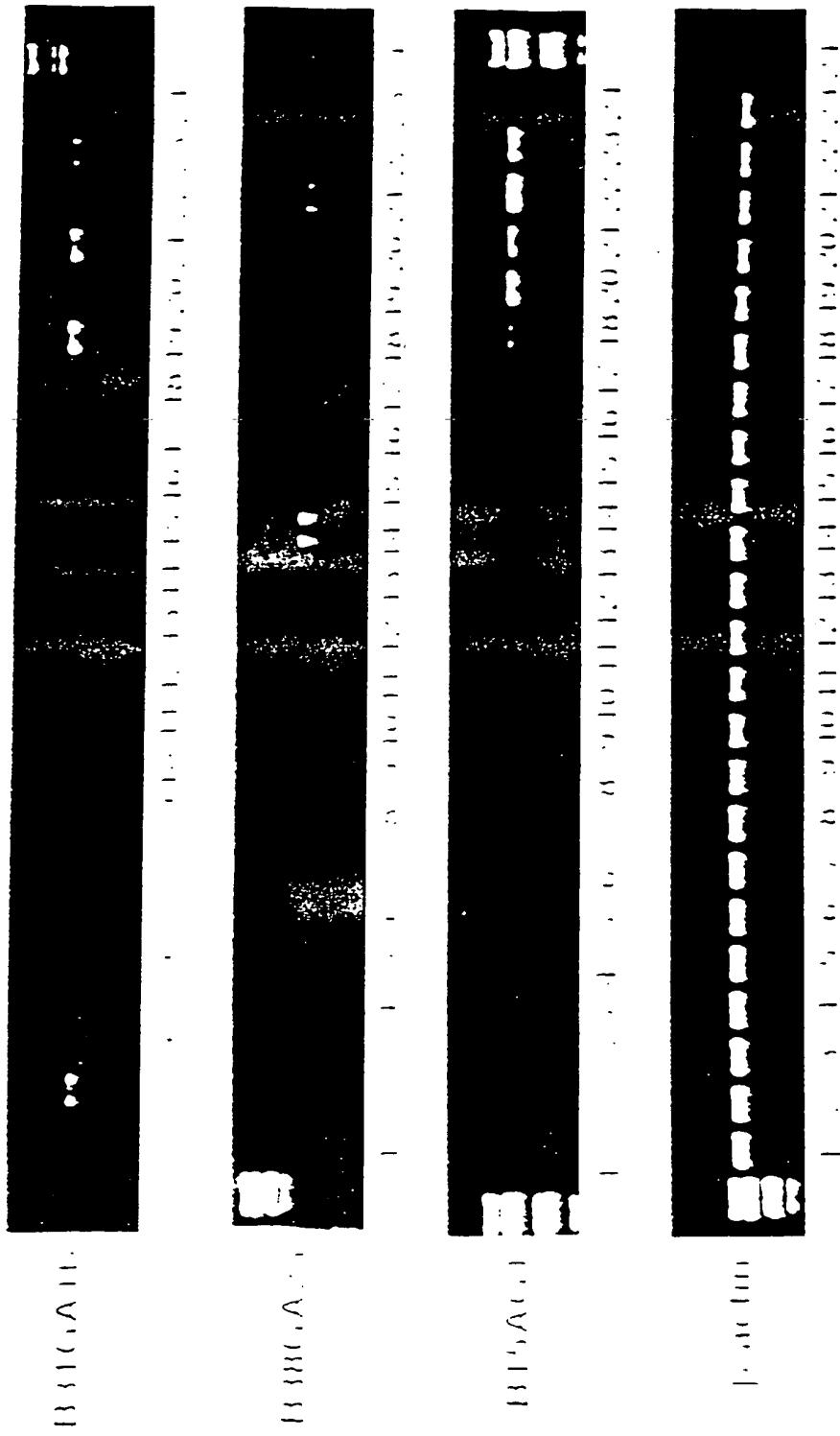


Fig. 21B

Recognition of Peptide by D142 anti-B11-8 CTL line

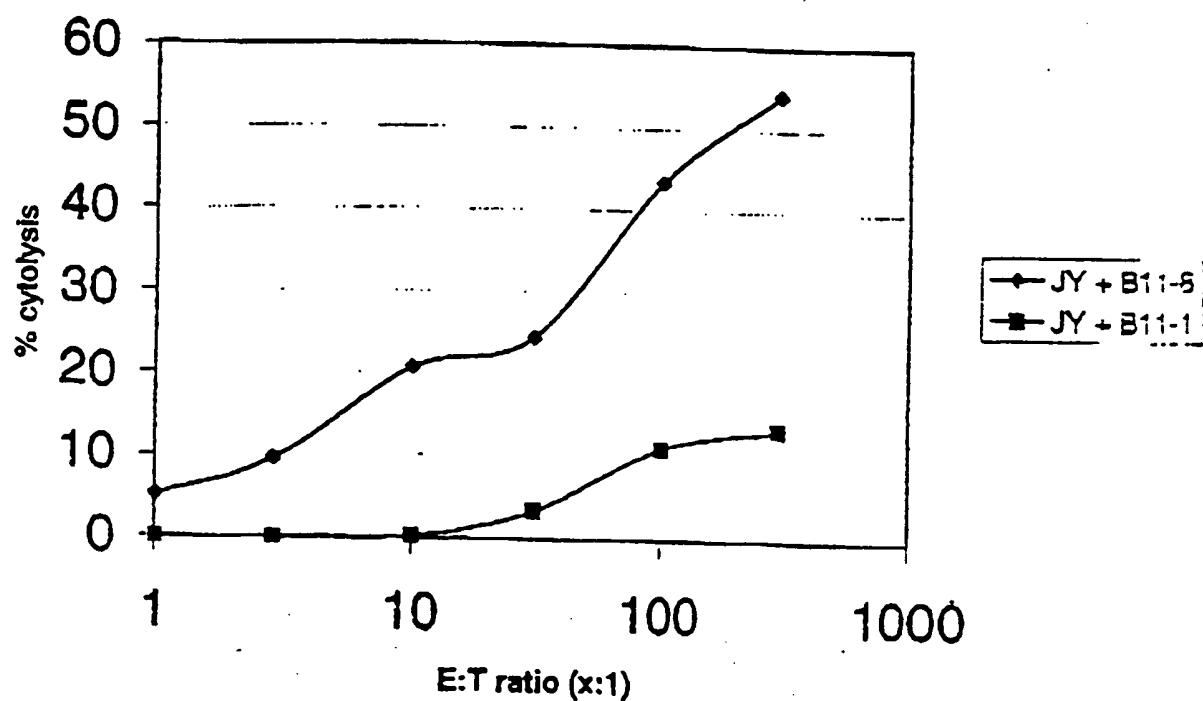


Fig. 22

Recognition of B11 Transductant by B11-8
Specific Clone A1

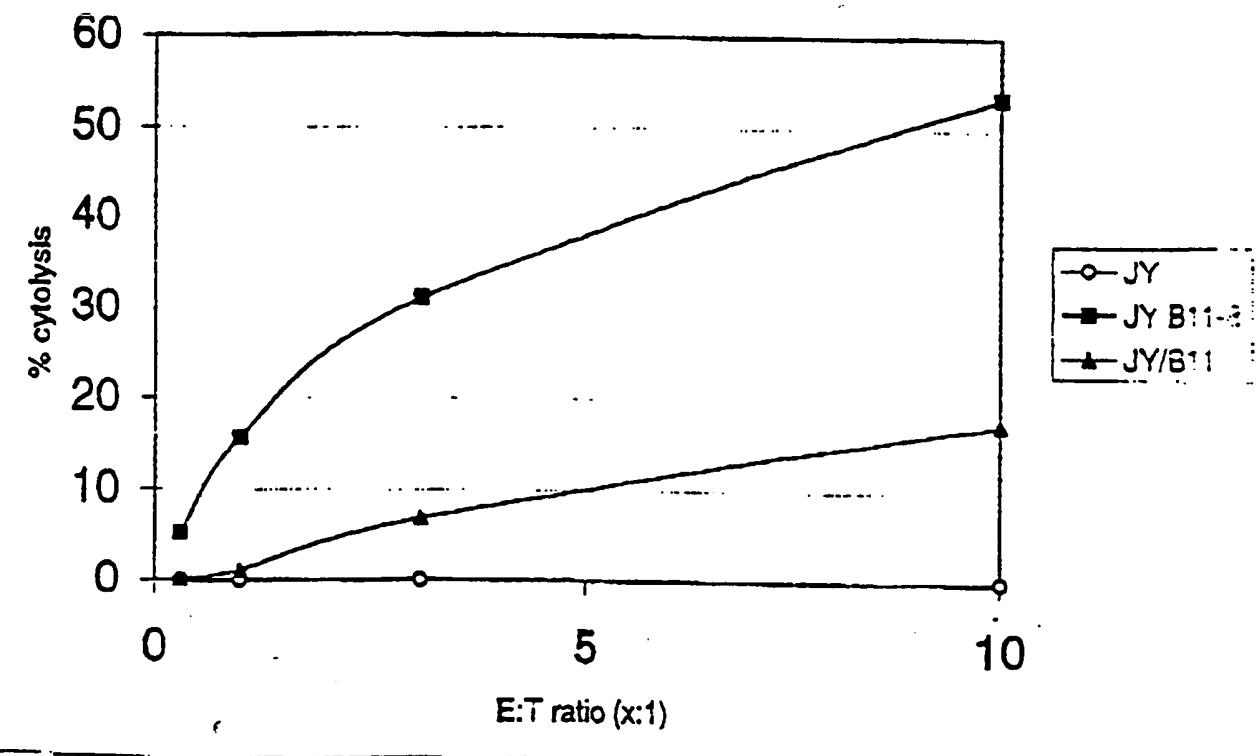


Fig. 23

Recognition of Tumor Cell Lines by Clone A1

